

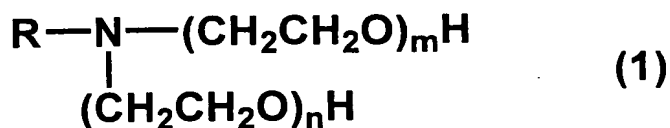
CLAIMS

1. A rust-preventive water-oil separating cleaner composition contacting with a part to be cleaned to which at least one oil selected from the group consisting of grease-base oil, naphthene-base mineral oil, paraffin-base mineral oil, poly- α -olefin, polyol ester, and polydimethyl siloxane attaches, and separating the oil from the part, while providing the parts with rust-preventive property, thus forming an oil layer containing the oil, the composition comprising:

(X) an ethylene oxide additive of monoalkyl amine represented by the general formula (1), and

(Y) at least one compound selected from the group consisting of; an N-monoalkyl-N-(2-hydroxyalkyl)-iminoethylene carboxylate having hydrocarbon group with the number of carbon atoms from 8 to 22; an acylated amino acid salt having hydrocarbon group with the number of carbon atoms from 8 to 22; an alkylol sarcosinate having hydrocarbon group with the number of carbon atoms from 8 to 22, and a tall oil fatty acid salt.

[Chemical Formula 1]



(in the general formula (1), R designates an alkyl group having straight chain or side chain with the number of carbon atoms from 7 to 9, m designates integer from 0 to 2, n designates integer from 0 to 2, and (m + n) designates integer from 1 to 3.)

2. The rust-preventive water-oil separating cleaner composition

according to claim 1, wherein the $(m + n)$ in the general formula (1) is integer of 1 or 2.

3. The rust-preventive water-oil separating cleaner composition according to claim 1 or 2, wherein the R in the general formula (1) is 2-ethylhexyl group.

4. The rust-preventive water-oil separating cleaner composition in any one of claims 1 to 3, wherein the mass ratio of the (X) component to the (Y) component, $[(W_x)/(W_y)]$, is in a range from 3/7 to 7/3.

5. A cleaning method comprising the steps of: placing a part to be cleaned to which oil is attached to contact with a cleaning liquid containing the rust-preventive water-oil separating cleaner composition according to any one of claims 1 to 4 and to separate the oil from the part, while providing the part with rust-preventive property; and forming an oil layer containing the oil; and reusing an aqueous layer obtained by removing the oil layer from the cleaning liquid after contacting with the part, as the cleaning liquid.

6. The cleaning method according to claim 5, wherein pH of the cleaning liquid containing the rust-preventive water-oil separating cleaner composition is adjusted to 7.5 or larger.